




**Field Modification Form  
Lower Passaic River Restoration Project  
Remedial Investigation  
Project No: 60145884**



<b>Field Modification Number: FM-131010-1</b>	
<b>Document (plan or SOP title and date)</b>	
Lower Passaic River Study Area, Low Resolution Coring Supplemental Sampling Program Addendum, Second Supplemental Sampling Program (SSP2) – Quality Assurance Project Plan (QAPP). Revision 1, September 2013.	
<b>Activity:</b> Locations for collection of sediment cores and grab samples in Third River.	
<p><b>Proposed Modification:</b> SSP2 QAPP included the collection of sediment cores and grab samples in Third River following the performance of a probing study in the Third River. The probing study was conducted on September 25, 2013. The results of this probing study (probe coordinates, water depth, sediment penetration, and nature of sediments) are presented in Table 1. The probe locations and sediment thickness are shown on Figure 1.</p> <p>Based on the results of the probing survey three core and grab sample stations are proposed to be added to the SSP2 sampling program. These stations fill in a spatial data gap longitudinally between LRC cores 2008 CLRC-109 and 2008 CLRC-110 and the three SSP 2 stations 13B-0543, 13B-0544, and 13B-0545 located at the mouth of the river that are already part of SSP 2. The probing data indicate that three to six feet of sediment was present at each of these proposed new stations. These proposed new core and grab stations (13B-0575, 13B-0576, and 13B-0577) are located at probe locations 13B-P422, 13B-P417, and 13B-415 respectively. These stations are shown on Figure 1 and the coordinates of these stations are provided in Table 2.</p> <p>The following worksheets are updated by this field modification:</p> <p>Worksheet 18: Is modified to include the three new stations. This modification is shown in Table 2.</p> <p>Introduction, Worksheet 11, Worksheet 14, Worksheet 20, and Worksheet 28 are modified by reference to include the 3 additional stations and 12 additional samples from core intervals and 3 additional samples from the surface grabs.</p>	
<b>Effective Date:</b> October 10, 2013	
<p><b>Rationale:</b> The SSP 2 QAPP anticipated the addition of stations in the Third River following the performance of the probing survey. This field modification form documents the addition of the three proposed stations.</p> <p>The attached figure shows the proposed three new stations in Third River.</p>	
<b>Submitted by:</b> Doug Simmons	<b>Date:</b> October 10, 2013
<b>FTM Manager Approval:</b> 	<b>Date:</b> October 10, 2013
<b>Project QA Manager Approval:</b> 	<b>Date:</b> October 10, 2013
<b>Task Manager Approval:</b> 	<b>Date:</b> October 10, 2013

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**Table 1. Third River Probing Results**

Date/Time		Probing Location		Water Depth (ft.)	Depth to Refusal (ft.)	Sediment Description	NAD 83 NJ State Plane Co-ordinates (ft.)	
		Probing ID	River Mile				Easting	Northing
Third River								
9/25/2013	1214	13B-P400	Third River	5.95	1.85	sand	593953.88	724593.12
9/25/2013	1220	13B-P401	Thir'd River	6	2.9	gravel	593954.83	724551.18
9/25/2013	1230	13B-P402	Thir'd River	5	1.15	sand and gravel	593996.35	724466.76
9/25/2013	1234	13B-P403	Thir'd River	1.3	4.45	silt	594011.23	724463.06
9/25/2013	1245	13B-P404	Thir'd River	3.8	1.1	silty sand with some gravel	594060.88	724424.31
9/25/2013	1248	13B-P405	Thir'd River	6.4	1.3	sand	594038.69	724401.26
9/25/2013	1249	13B-P406	Thir'd River	2.75	1.05	silt over hard gravel (refusal on gravel)	594101.00	724427.85
9/25/2013	1254	13B-P407	Thir'd River	4.9	1.8	sand, possibly some gravel	594165.81	724376.32
9/25/2013	1257	13B-P408	Thir'd River	6	1.5	silt with sand at bottom of probe	594175.18	724338.6
9/25/2013	1303	13B-P409	Thir'd River	2.5	2.8	silt over hard bottom; silt in tip	594196.36	724392.91
9/25/2013	1310	13B-P410	Thir'd River	5.95	2.1	silt over hard bottom; red gravel in tip	594291.99	724319.08
9/25/2013	1313	13B-P411	Thir'd River	3.05	1.85	silt over armored bottom	594329.73	724359.84
9/25/2013	1314	13B-P412	Thir'd River	2.9	0.8	sand with trace of gravel over hard bottom	594253.00	724287.26
9/25/2013	1320	13B-P413	Thir'd River	2.9	3.4	silt	594293.44	724359.66
9/25/2013	1325	13B-P414	Thir'd River	3	3.4	silt with some sand	594342.81	724239.06
9/25/2013	1326	13B-P415	Thir'd River	3.3	3.3	silt over sandy gravel, gravel in tip	594316.95	724217.66
9/25/2013	1330	13B-P416	Thir'd River	7.3	0	hard bottom	594370.68	724243.46
9/25/2013	1335	13B-P417	Thir'd River	6.4	3.15	silt, silt with some sand in tip	594380.29	724152.43
9/25/2013	1337	13B-P418	Thir'd River	5.95	0.95	gravel, gravel in tip	594398.69	724164.65
9/25/2013	1339	13B-P419	Thir'd River	4.2	1.05	silt over hard bottom	594361.86	724146.28
9/25/2013	1345	13B-P420	Thir'd River	6.5	0.65	silt	594430.15	723946.45
9/25/2013	1347	13B-P421	Thir'd River	9.6	0.95	silt with trace of sand	594387.03	723941.05
9/25/2013	1350	13B-P422	Thir'd River	3.7	5.55	silt, silt in tip	594473.26	723982.81

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Table 2. Addendum to Worksheet 18

Station Location			Siting Rationale				NAD <sup>4</sup> 83 NJ State Plane Feet	
Station ID	Approximate Sediment Elevation <sup>1</sup> NGVD29 Feet	River Mile	CPG Location (DQO 2)	USEPA Location (DQO 1)	Core and Grab	Grab	Easting	Northing
13B-0575		Third River		X	X		594473.26	723982.81
13B-0576		Third River		X	X		594380.29	724152.43
13B-0577		Third River		X	X		594316.95	594316.95

<sup>1</sup> Not available for these locations.

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Basemap: State of New Jersey Office of Information Technology (NJGIT), Office of Geographic Information Systems (OGIS)

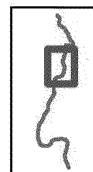
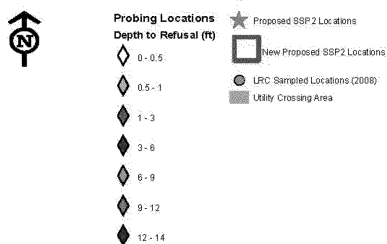


Figure 1  
Third River SSP2 Sample Locations  
RM 10.5 to 13.9

October, 2013

AECOM